



Desmopan DP 3690AU

300 grade series, ester / Shore hardness A 90 - 94

Extrusion- and injection molding grade; hydrolysis-stabilised; with special UV stabilizers; with release agent; transparent up to 6 mm wall thickness; good wear resistance; Application; Sports shoe soles; Films; Hoses, non-reinforced

ISO Shortname

Property	Test Condition	Unit	Standard	Value drying annealed - according to specifications		
Mechanical properties (23 °C/50 % r. h.)						
C shore hardness, method A		-	ISO 868		93	
C shore hardness, method D		-	ISO 868		40	
C Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3		55	
C Elongation at break	200 mm/min	%	acc. ISO 527-1,-3		430	
C Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		8	
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		24	
C Compression set	24 h; 70 °C	%	ISO 815		48	
C Compression set	72 h; 23 °C	%	ISO 815		21	
C Abrasion resistance		mm³	ISO 4649		22	
Impact resilience		%	ISO 4662		29	
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		95	
Thermal properties						
Torsional storage modulus	-20 °C	MPa	ISO 6721-2		848	
Torsional storage modulus	23 °C	MPa	ISO 6721-2		54	
Torsional storage modulus	70 °C	MPa	ISO 6721-2		30	
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		940	
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		94	
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		54	
Other properties (23 °C)						
C Density		kg/m³	ISO 1183			1211
Molding conditions						
Injection molding-Melt temperature		°C	-	215 - 235		
Injection molding-Mold temperature		°C	-			20 - 40
Extrusion-Melt temperature		°C	-	180 - 200		
Maximum drying temperature		°C	-			80

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.

